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- 7 [Special issue on persistent object systems: Adaptable pointer swizzling strategies in](#)

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M. P. Atkinson, L. Daynès, M. J. Jordan, T. Printezis, S. Spence

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4


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19 Database indexing for large DNA and protein sequence collections

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[Providing Persistent Objects in Distributed Systems - Liskov, Castro, Shriru, Adya \(1999\) \(Correct\) \(8 citations\)](#)  
individual programs, effectively providing a **persistent heap** that can be shared by many different  
[www.cs.brandeis.edu/~liuba/thor-ecoop-camera.ps.gz](http://www.cs.brandeis.edu/~liuba/thor-ecoop-camera.ps.gz)

[Concurrent Compacting Garbage Collection of a Persistent Heap - O'Toole, Nettles, Gifford \(1993\) \(Correct\) \(23 citations\)](#)

Concurrent Compacting Garbage Collection of a **Persistent Heap** James O'Toole Scott Nettles David Gifford describe a replicating garbage collector for a **persistent heap**. The garbage collector cooperates with a or by garbage collecting the transitory **heap**. **Persistent GC** When a commit adds enough new data to [www.lcs.mit.edu/publications/pubs/pdf/MIT-LCS-TR-569.pdf](http://www.lcs.mit.edu/publications/pubs/pdf/MIT-LCS-TR-569.pdf)

[Transactions for Java - Garthwaite, Nettles \(1996\) \(Correct\) \(10 citations\)](#)

the persistent head and its atomic update. The **persistent heap** implementation is closely integrated into or the Java virtual machine is restarted on a **persistent heap** image containing uncommitted changes. Central to this support was making Java's **heap persistent**, with a representation on stable storage as [ftp.cis.upenn.edu/pub/nettles/java.ps](http://ftp.cis.upenn.edu/pub/nettles/java.ps)

[Persistent Java Objects: A Proposal - Ashok Malhotra \(1996\) \(Correct\) \(6 citations\)](#)

a command line argument. Objects created in a **persistent heap** with garbage collection become permanent if the program ends. Objects created in a default **persistent heap** that is not garbage collected are made [research.sun.com/research/forest/UK.Ac.Gla.Dcs.PJW1.Ashok\\_Malhotra2\\_ps.ps](http://research.sun.com/research/forest/UK.Ac.Gla.Dcs.PJW1.Ashok_Malhotra2_ps.ps)

[Development and Performance Analysis of a Temporal Persistent .. - Takayuki Suzuki \(1996\) \(Correct\) \(6 citations\)](#)

object is simply one that is allocated in the **persistent heap**, as opposed to the conventional (transient) The operation `pnew` returns an address in the **persistent heap** on which the object was allocated. Figure 1 [www.dblab.is.tsukuba.ac.jp/projects/kde/papers/1996/ad96\\_suzuki.ps](http://www.dblab.is.tsukuba.ac.jp/projects/kde/papers/1996/ad96_suzuki.ps)

[LabBase: A Database to Manage Laboratory Data in a Large-Scale.. - Steve Rozen \(1995\) \(Correct\) \(5 citations\)](#)

to C that allow objects to be allocated on a **persistent heap** (via an overloaded `new` operator) so that facility that guarantees that the **persistent heap** is left in a consistent state if a program [www-genome.wi.mit.edu/ftp/pub/papers/Y1995/labbase.ps.gz](http://www-genome.wi.mit.edu/ftp/pub/papers/Y1995/labbase.ps.gz)

[Class and Data Evolution Support in the PJama Persistent.. - Misha Dmitriev Misha \(2000\) \(Correct\) \(1 citation\)](#)

providing the illusion of a very large (**persistent**) **heap**. A stable store, an equivalent of a disk [www.dcs.gla.ac.uk/~misha/papers/evolrep.ps.gz](http://www.dcs.gla.ac.uk/~misha/papers/evolrep.ps.gz)

[Mostly-copying reachability-based orthogonal persistence - Hosking, Chen \(1999\) \(Correct\) \(1 citation\)](#)

closure necessary for stabilization of the **persistent heap**. It has been implemented in our prototype of perform the necessary steps to stabilize the **persistent heap**. Again, this allows orthogonal persistence [ftp.cs.purdue.edu/pub/hosking/papers/oopsia99.pdf](http://ftp.cs.purdue.edu/pub/hosking/papers/oopsia99.pdf)

[RWC Massively Parallel Software Environment and An.. - Ishikawa, Hori.. \(1995\) \(Correct\) \(3 citations\)](#)

for persistent programming in terms of **persistent heap** management. Extensions of OCore and MPC [www.rwcp.or.jp/people/ishikawa/psls95.ps.gz](http://www.rwcp.or.jp/people/ishikawa/psls95.ps.gz)

[Towards a Unified Model of Untyped Object Stores.. - Matthes, Müller, Schmidt \(1996\) \(Correct\) \(3 citations\)](#)

on the widely accepted notion of an untyped **persistent heap** (MS88, BM91, KKD89) Despite the fact that [www.sts.tu-harburg.de/papers/1996/MMS96a/tsp-paper.ps.gz](http://www.sts.tu-harburg.de/papers/1996/MMS96a/tsp-paper.ps.gz)

[The Transactional Object Cache: A foundation for high.. - Stephen Blackburn \(1998\) \(Correct\) \(1 citation\)](#)

al. 1994] which provide the abstraction of a **persistent heap** implemented with a relatively expensive [cs.anu.edu.au/~Steve.Blackburn/pubs/blackburn98.ps.gz](http://cs.anu.edu.au/~Steve.Blackburn/pubs/blackburn98.ps.gz)

[Approaching Integration in Software Environments - Morrison, al. \(1993\) \(Correct\) \(2 citations\)](#)

And W. P. Cockshott, Ps-Algol: An Algol With A **Persistent Heap**. *Acm Sigplan Notices* 17 (7)24-31 (1982)

[www.ppg.dcs.st-and.ac.uk/Publications/PostScript/approaching.integration.ps.gz](http://www.ppg.dcs.st-and.ac.uk/Publications/PostScript/approaching.integration.ps.gz)

Main Memory Management for Persistence - Antony Hosking (1991) (Correct) (1 citation)

language is to provide the illusion of a **persistent heap**. As far as the programmer is concerned, all objects are allocated and manipulated in the **persistent heap** just as if they were in an ordinary main  
<ftp.cs.umass.edu/pub/osl/papers/oopsla91gc-afh.ps.Z>

A Rollback Technique for Implementing Orthogonal Persistence - Scott Nettles James (Correct)

relocation from the transitory heap to the **persistent heap** has been postponed. However, this method forwarding pointer copied object object **Persistent Heap** Figure 2: A Committed State Figure 2 shows a  
<ftp.cis.upenn.edu/pub/nettles/pos/letter/US31-nettles.ps>

Towards a Persistence Framework for High Performance Computing.. - Nolte (1995) (Correct)

programming, which is based on the notion of **persistent heaps**. 1 Introduction The fundamental property of which is constructed upon the abstraction of **persistent heaps** and can be functionally enriched as same line. 9 Persistent(array)Persistent(heap)Persistent(root)if (root =NIL) root =new (heap)  
[www.rwcp.or.jp/lab/pdslab/papers/tr95007.ps.gz](http://www.rwcp.or.jp/lab/pdslab/papers/tr95007.ps.gz)

An Oberon-2 Binding for the ODMG-93 Standard - Knasmüller (Correct)

of objects. An object is removed from the (**persistent**) **heap** during garbage collection if that object is  
[www4.informatik.tu-muenchen.de/~thurner/CAiSE98DC/Proceedings/knasmueller.ps](http://www4.informatik.tu-muenchen.de/~thurner/CAiSE98DC/Proceedings/knasmueller.ps)

Measuring and Analyzing Persistent Xfig Memory Behaviour - Richer (1999) (Correct)

fragmentation. These goal remain important for **persistent-heap** allocator, but are secondary to maximizing  
[www-sor.inria.fr/~richer/publication/tc32a.ps.gz](http://www-sor.inria.fr/~richer/publication/tc32a.ps.gz)

PMOS Revitalised - Fred Brown And (Correct)

with which applications interact, a stable **persistent heap** of objects managed by PMOS#2 and an cache writes a persistent object back to the **persistent heap** each updated pointer field is checked. If  
[www.cs.adelaide.edu.au/users/dave/papers/pmos.revitalised.pdf](http://www.cs.adelaide.edu.au/users/dave/papers/pmos.revitalised.pdf)

Implementing Persistency in Common LISP - Heiko Kirschke May (Correct)

O B 's persistent objects are allocated from a **persistent heap**. Systems using a similar approach are WOOD, For LISP, this nor1 4 Architecture 4.1 **Persistent Heap** mally means restricting persistent objects  
[www.lisp.de/software/plob/plobelugm99.pdf](http://www.lisp.de/software/plob/plobelugm99.pdf)

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[Persistent Java Objects: A Proposal - Ashok Malhotra \(1996\)](#) [\(Correct\)](#) [\(6 citations\)](#)

a command line argument. Objects created in a **persistent heap** with garbage collection become permanent if When the program ends, all objects created in **transient heaps** disappear. For **persistent heaps**, if the [research.sun.com/research/forest/UK.Ac.Gla.Dcs.PJW1.Ashok\\_Malhotra2\\_ps.ps](http://research.sun.com/research/forest/UK.Ac.Gla.Dcs.PJW1.Ashok_Malhotra2_ps.ps)

[Development and Performance Analysis of a Temporal Persistent ... - Takayuki Suzuki \(1996\)](#) [\(Correct\)](#) [\(6 citations\)](#)

object is simply one that is allocated in the **persistent heap**, as opposed to the conventional (transient) heap, as opposed to the conventional (**transient**) heap or in the activation stack. The following [www.dblab.is.tsukuba.ac.jp/projects/kde/papers/1996/adc96\\_suzuki.ps](http://www.dblab.is.tsukuba.ac.jp/projects/kde/papers/1996/adc96_suzuki.ps)

[Measuring and Analyzing Persistent Xfig Memory Behaviour - Richer \(1999\)](#) [\(Correct\)](#)

fragmentation. These goal remain important for **persistent-heap** allocator, but are secondary to maximizing papers about memory allocation policies in a **transient heap** context had been published. In addition, [www-sor.inria.fr/~richer/publication/tc32a.ps.gz](http://www-sor.inria.fr/~richer/publication/tc32a.ps.gz)

[Defining and Handling Transient Fields in PJama - Printezis, Atkinson, Jordan](#) [\(Correct\)](#)

Heap Disk PJama VM Disk Cache Object Cache **Persistent Heap** Original JDK Object Promotion Persistent Systems 3 Store Persistent **Transient Heap** Disk PJama Vm Disk Cache Object Cache [www.dcs.gla.ac.uk/dbpl99/final/PrintezisEtAl.ps](http://www.dcs.gla.ac.uk/dbpl99/final/PrintezisEtAl.ps)

[Adding Persistence to the Oberon-System - Knasmüller \(1996\)](#) [\(Correct\)](#)

in the Oberon system is obtained by a **persistent heap** on the disk. Persistent objects are on this they will be written back to the **persistent heap**. Persistent objects, which are not referenced by other object leads to loading the object into the **transient heap**. If they are not accessed from transient [ftp.ssw.uni-linz.ac.at/pub/Reports/Report6.ps.Z](http://ftp.ssw.uni-linz.ac.at/pub/Reports/Report6.ps.Z)

[How to integrate Schema Evolution into the Persistent Garbage... - Knasmüller](#) [\(Correct\)](#)

Schema Evolution, Garbage Collection, **Persistent Heap** 1 Introduction In most applications the objects, it is written back to the **persistent heap**. Persistent objects, not referenced by other persistent a persistent object loads it into the **transient heap**. If a persistent object is no longer [ftp.ssw.uni-linz.ac.at/pub/Papers/Schema.ps](http://ftp.ssw.uni-linz.ac.at/pub/Papers/Schema.ps)

[Persistency in a Dynamic Object-Oriented Programming Language - Heiko Kirschke \(1995\)](#) [\(Correct\)](#)

A solution to this problem is to use a **persistent heap** 1 The original definition dates back to persistent memory it works very similar to a **transient heap**, especially it has the possibility of [www.lisp.de/software/plob/lababstract.ps.gz](http://www.lisp.de/software/plob/lababstract.ps.gz)

[Adding Schema Evolution to the Persistent Development... - Knasmüller \(1997\)](#) [\(Correct\)](#)

In Oberon-D persistence is obtained by a **persistent heap** on the disk [Kna97] Persistent objects, objects, it is written back to the **persistent heap**. Persistent objects, not referenced by other persistent a persistent object loads it into the **transient heap**. If a persistent object is no longer [ftp.ssw.uni-linz.ac.at/pub/Reports/Report10.ps.Z](http://ftp.ssw.uni-linz.ac.at/pub/Reports/Report10.ps.Z)

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|----------|------|--|--|------------------|
| 55       | 32   | virtual adj machine same heaps same garbage adj collection         | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:34 |
| 56       | 3    | virtual adj machine same (persistent or middleware) adj heap       | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:37 |
| 57       | 1    | virtual adj machine same (three or multiple) adj heap              | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:38 |
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| 59       | 1    | virtual adj machine same transaction with heap                     | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:42 |
| 61       | 3    | virtual adj machine same persistent adj object with heap           | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:46 |
| 62       | 4    | virtual adj machine same persistent adj object same heap           | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:42 |
| 63       | 3    | ("6247027"   "6339782"   "6393439").PN.                            | USPAT  | 2003/06/24 15:42 |
| 64       | 4    | virtual adj machine same persistent adj object same heap           | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:48 |
| 65       | 21   | persistent adj object same heap                                    | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 15:57 |
| 66       | 15   | persistent adj heap  | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 16:04 |
| 67       | 2    | ("5959621").PN.  | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 16:44 |
| 68       | 2    | virtual adj machine same system adj heap                           | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 16:47 |

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|----|---|--|--|------------------|
| 69 | 9 | system adj heap and application adj heap | USPAT;<br>US-PGPUB;<br>EPO;<br>DERWENT;<br>IBM_TDB | 2003/06/24 16:48 |
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